LABORATORY QUALIFICATION APPLICATION FORM

SAMPLING AND TESTING AND RELATED ACTIVITIES PERFORMED FOR WISDOT PROJECTS PLUS APPLICABLE REFERENCES

Please indicate those specific sampling and testing activities for which your laboratory is requesting qualification recognition and enclose the completed form with your application as indicated in the direction.

I. AGGREGATE

A. Sampling ---- AASHTO T-2 as modified by WisDOT ☐
B. Moisture ----- T-255 ☐
C. Permeability ---- WisDOT Test Method ☐
D. Fracture (fine agg.) ---- T-304 ☐
E. Fracture (coarse agg.) ---** ☐
F. Splitters ----- T-248 ☐
G. Gradation of Aggregate ---- T-27 ☐
H. Washed Aggregate Sample ---- T-11 ☐
I. Unit Weight of Aggregate ----- T-19 ☐
J. Flat and Elongated Particles ---- ASTM D4791 ☐
K. Liquid Limit --------- T-89 ☐
L. Plasticity Index ------ T-90 ☐
M. Specific Gravity and Absorption of Fine Aggregate --- T-84 ☐
N. Specific Gravity and Absorption of Coarse Aggregate --- T85 ☐

II. AGGREGATE QUALITY TESTING

For a laboratory to be qualified to perform aggregate quality testing for the Department, they must be capable of performing the following test procedures.

A. Fracture (WisDOT CMM 13.9) ☐

B. Liquid Limit (AASHTO T 89); using AASHTO T 146,

Method A for prep of P-4 ☐

C. Plasticity (AASHTO T 90); using AASHTO T 146,

Method A for prep of P-4 ☐

D. Coarse Aggregate Specific Gravity & Absorption (AASHTO T 85) ☐

E. Fine Aggregate Specific Gravity & Absorption (AASHTO T 84) ☐

The laboratory must also meet at least one of the following requirements:

- The laboratory must be AASHTO Accredited in at least two of the three following test procedures:

  a. LA Wear (AASHTO T 96); 100 & 500 revolutions ☐

  b. Sodium Sulfate Soundness (AASHTO T 104); R-4, 5 cycles ☐

  c. Freeze/Thaw Soundness (AASHTO T 103); R-4,

  16 cycles, Procedure B ☐

Or;

- Participate in AMRL's Proficiency Sample Program for coarse aggregate, providing data for LA Wear (AASHTO T 96) and Sodium Sulfate Soundness (AASHTO T 104). A copy of AMRL's data report for the lab shall be submitted to the WisDOT Quality Management Laboratory for evaluation. ☐

III. ASPHALT MIX

A. Mix Sampling For Asphaltic Mixtures--C&M and QMP Procedure Manuals ☐
B. Extractions --- WisDOT Test Method 1560 ☐
C. Asphalt Mix Design ----- WisDOT Test Method 1559 ☐
D. Bulk Specific Density ---- T-166 ☐
E. Rice Specific Gravity ----- T-209 ☐
F. Gyratory Shear ---- T-320 ☐
G. Air Voids ----- T-269 ☐
H Gyratory Compaction ---- T-312 ☐

IV. CONCRETE MIX

A. Mix Sampling ----- T-141 ☐
B. Compressive Strengths ---- T-22, T-231, T-23 ☐
C. Air Meter calibration ----** ☐
D. Air Content ------ T-152 ☐
E. Aggregate Correction (air) ----- T-152 ☐
F. Slump ------- T-119 ☐
G. Cores ------ T-24, T-148 ☐
H. Concrete Temperature ----- T-309 ☐

V. SOILS

A. Sampling ---- T-203, T206, T207 ☐
B. Liquid Limit ---- T-89 ☐
C. Plasticity Index ---- T-90 ☐
D. Proctor ------- T-99 ☐
E. Sieve Analysis ----- T-88 ☐
F. Field Moisture ------ T-93 ☐
G. Dry Preparation of Disturbed Soil and Soil Aggregate Sampling of Test – T87 ☐
H. Determining the Shrinkage Factor of Soils --- T-92 ☐
I. Specific Gravity of Soils ---- T-100 ☐
J. Moisture-Density Relations of Soils (10 Ib. Rammer/18 in. Drop) ---- T-180 ☐
K. Laboratory Determination of Moisture Content of Soils ---- T265 ☐
L. Particle-size Analysis of Soils ---- ASTM D 422 ☐
M. Amount of Material in Soils Finer Than the No. 200 Sieve --- ASTM D 1140 ☐

VI. GENERAL ITEMS ---***

A. Wire Cloth Sieves ----- M-92 (Equipment Check) ☐
B. Weighing Devices ----- M-231 (Equipment Check) ☐
C. Force Verification of Testing machines ---- T-67 ☐
D. Nuclear Density ------ T-310 ☐
E. Profilograph ------** ☐

**-- See WisDOT's "Standard Specification for Highway and Structure Construction" and "Construction & Materials Manual".

***-- Items in this section may be applicable to items in sections I through IV.